BUILDING INSPECTION TECHNOLOGY

Sylvania Campus
Science Technology. Room 200
971-722-4166
pcc.edu/programs/building-inspection/

CAREER AND PROGRAM DESCRIPTION

PCC’s Building Inspection Technology program provides a diverse set of skills, enabling students to begin a career working in governmental jurisdictions or private industry, as a Building Inspector or Plans Examiner position. The degree in Building Inspections Technology trains for work in building inspections and plan review, for both residential and commercial buildings. The Certificate in Residential Plans Examination trains for work in residential inspection and plan review; ideally for someone with some construction background. (Please note, the Certificate does not provide training as a home inspector, who typically is part of a real estate transaction).

The Building Inspection Technology (INSP) program is delivered by experts currently working in the field. Students develop and apply basic understanding of concepts, theories, and principles of construction and building codes with both a residential and commercial focus. A broad curriculum including:

- construction materials and processes
- printreading
- building systems
- building structures
- residential and commercial building codes
- residential and commercial plans review

in addition to courses in:

- interpersonal communication
- computers
- mathematics
- job finding skills

Also, cooperative work experience (internship) at a local city or county building department prepares students for a career in building inspection and/or plan review. Graduates may find employment in public and private code enforcement agencies, construction firms, engineering or architectural firms, and other related industries.

PCC is the only college in Oregon to offer career and technical training in Building Inspections Technology. All INSP classes are offered in the evening on the Sylvania campus and a few courses are offered in an online format. There is no online only option. For more information or availability of individual courses please contact the department advisor, at 971-722-4166. Students who wish to transfer to a college or university to obtain a bachelor’s degree should check with the specific institution for transferability.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE
Building Inspection Technology

LESS THAN ONE-YEAR: CAREER PATHWAY CERTIFICATE
Residential Plans Examination

Academic Prerequisites

- None

Academic Requirements

- All ARCH and INSP courses must be completed with a letter grade of "C" or better. INSP 280 is excluded from this requirement because it is offered as Pass/No Pass only.

Non-Academic Prerequisites

- None

Non-Academic Requirements

- None

BUILDING INSPECTION TECHNOLOGY AAS DEGREE

Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. Some courses specified within the program may be used as General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

Building Inspection Technology Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 121</td>
<td>Structural Systems I</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 122</td>
<td>Structural Systems 2</td>
<td>3</td>
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<tr>
<td>ARCH 123</td>
<td>Structural Systems 3</td>
<td>3</td>
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<tr>
<td>ARCH 124</td>
<td>Introduction to Building Systems</td>
<td>3</td>
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<tr>
<td>ARCH 132</td>
<td>Residential Building Codes</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 134</td>
<td>Energy Conservation Code</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 161</td>
<td>Residential Print Reading</td>
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<td>ARCH 162</td>
<td>Commercial Print Reading</td>
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<td>CG 209</td>
<td>Job Finding Skills</td>
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<tr>
<td>COMM 140</td>
<td>Introduction to Intercultural Communication</td>
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</tr>
<tr>
<td>INSP 126</td>
<td>Plan Review Software</td>
<td>2</td>
</tr>
<tr>
<td>INSP 151</td>
<td>International Residential Code Structural 1</td>
<td>4</td>
</tr>
<tr>
<td>INSP 152</td>
<td>International Residential Code Mechanical</td>
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<td>INSP 251</td>
<td>International Building Code I</td>
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<tr>
<td>INSP 252</td>
<td>International Building Code II</td>
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<tr>
<td>INSP 253</td>
<td>International Building Code III</td>
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<tr>
<td>INSP 255</td>
<td>International Mechanical Code I</td>
<td>2</td>
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<tr>
<td>INSP 256</td>
<td>International Mechanical Code II</td>
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<td>INSP 280</td>
<td>CE: Field Experience Inspection</td>
<td>10</td>
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<tr>
<td>INSP/ARCH Electives</td>
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<td>COMM/MSD Electives</td>
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<tr>
<td>Total Credits</td>
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</table>

* Could be used for general education.

BUILDING INSPECTION/ARCHITECTURE ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 131</td>
<td>Sustainable Building Strategies</td>
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<tr>
<td>ARCH 133</td>
<td>Commercial Building Codes</td>
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<tr>
<td>ARCH 224</td>
<td>Active and Passive Building Systems</td>
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<td>INSP 201</td>
<td>Plans Examination-Commercial</td>
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<tr>
<td>INSP 202</td>
<td>Plans Examination-Residential</td>
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<tr>
<td>INSP 220</td>
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<tr>
<td>INSP 257</td>
<td>International Fuel-Gas Code</td>
<td>3</td>
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Administrative Office
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Science Technology
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971-722-4166
COMMUNICATION/MSD ELECTIVES
COMM 130 Business & Professional Communication 4
COMM 237 Gender and Communication 4
MSD 105 Workplace Communication Skills 3
MSD 117 Customer Relations 3
MSD 128 Crisis Intervention: Handling the Difficult Person 1
MSD 150 Listening Skills 1
MSD 151 Working with Difficult People 1
MSD 157 Conflict Management 1
MSD 161 Customer Relations 1

INSP 126. Plan Review Software. 2 Credits.
Introduces Plan Review software as a tool for online review of plan submittals for building permits. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 151. International Residential Code Structural I. 4 Credits.
Covers International Residential Code Structural I. Prerequisites: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 152. International Residential Code Mechanical. 2 Credits.
Covers residential building mechanical systems code requirements as detailed in the International Residential Building Code manual. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

COMMUNICATION/MSD ELECTIVES
COMM 130 Business & Professional Communication 4
COMM 237 Gender and Communication 4
MSD 105 Workplace Communication Skills 3
MSD 117 Customer Relations 3
MSD 128 Crisis Intervention: Handling the Difficult Person 1
MSD 150 Listening Skills 1
MSD 151 Working with Difficult People 1
MSD 157 Conflict Management 1
MSD 161 Customer Relations 1

INSP 201. Plans Examination-Commercial. 4 Credits.
Covers commercial plans examination and code compliance for building permit applications. Includes procedures for review of plan submittals and code administration. Prerequisite: ARCH 162 and INSP 252 and (MTH 60 or equivalent placement test score). Audit available.

INSP 202. Plans Examination-Residential. 4 Credits.
Covers residential plans examination and the skills needed to determine code compliance for building permit applications. Includes procedures for the review of plan submittals and code administration. Prerequisites: ARCH 161 and INSP 151. Audit available.

INSP 204. International Building Code I. 4 Credits.
Covers nonstructural regulations of the International Building Code. Includes administration, occupancy classification, building area & height, construction types, interior environments, and fire resistive standards for small commercial and multi-story structures. Prerequisite: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 205. International Building Code II. 4 Credits.
Continues the study of the International Building Code. Includes fire protection and egress systems, accessibility, sanitation, and building materials. Prerequisite: INSP 251. Audit available.

INSP 206. International Building Code III. 4 Credits.
Introduces the requirements for structural engineering, within the International Building Code, as applied to small commercial structures of three stories and less. Prerequisites: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 250. International Mechanical Code I. 2 Credits.
Covers International Mechanical Code regulations for permitting. Includes general requirements, exhaust systems, kitchen hoods and duct systems. Prerequisites: (WR 115 or IRW 115) and MTH 20 or equivalent placement. Audit available.

INSP 255. International Mechanical Code II. 2 Credits.
Covers International Mechanical Code regulations for permitting. Includes combustion air, chimneys and vents, refrigeration, and specific appliance systems. Prerequisite: INSP 255. Audit available.

INSP 258. CE: Field Experience Inspection. 1-10 Credit.
Provides an opportunity to work at approved job sites. Explores a variety of experiences and placement opportunities. Requirement: coordination with student, supervisor, instructor and cooperative education specialists. Prerequisite: Department approval.

INSP 280B. Cooperative Education: Field Experience. 1-5 Credit.
Work on approved job sites where student will receive as varied and complete an experience as possible under job conditions. Credits are variable and based on the number of clock hours student spends on job site. Must be coordinated with supervisor, instructor, and cooperative education specialist. Department permission required.